

Notice of Allowability

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Application No.	Applicant(s)	
10/681,543	CIST, DAVID B.	
Examiner	Art Unit	
Bernarr E. Gregory	3662	

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		Bernarr E. Gregory	3662	
All claims be herewith (or NOTICE OF	The MAILING DATE of this communication appering allowable, PROSECUTION ON THE MERITS IS previously mailed), a Notice of Allowance (PTOL-85) ALLOWABILITY IS NOT A GRANT OF PATENT R or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. 🛭 This o	communication is responsive to the amendment that	was received 16 December 2004.		
2. 🛭 The a	allowed claim(s) is/are <u>1-21</u> .			
3.	frawings filed on are accepted by the Examine	r.		
4. ☐ Ackni a) ☐	owledgment is made of a claim for foreign priority under the last of the last of the last own and last own an	e been received. e been received in Application No		ition from the
* Cer	tified copies not received:			
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	BSTITUTE OATH OR DECLARATION must be subm RMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
(a) ☐ ir (b) ☒ ir F Identifyin each she 7. ☐ DEPC	RECTED DRAWINGS (as "replacement sheets") must be cluding changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date cluding changes required by the attached Examiner apper No./Mail Date Tog indicia such as the application number (see 37 CFR 1 et. Replacement sheet(s) should be labeled as such in the DSIT OF and/or INFORMATION about the deponded Examiner's comment regarding REQUIREMENT	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL r	Office action of ngs in the front (not the d). nust be submitted. I	
2. Notice 3. Inform Paper 4. Exami	of References Cited (PTO-892) of Patent Drawing Review (PTO-948) ation Disclosure Statements (PTO-1449 or PTO/SB/0 r No./Mail Date ner's Comment Regarding Requirement for Deposit gical Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	
		/	Bernarr E. Gregory Primary Examiner	

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1. The following changes to the drawings have been approved by the examiner: the "ground penetrating radar" that is no recited in claim 15 as amended MUST be illustrated in the drawings per 37 CFR1.83 (a). Preferably, it should be in Figure 1. Correction is hereby **required**.

In order to avoid abandonment of the application, applicant must make these drawing changes.

2. The following is an examiner's statement of reasons for allowance:

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicant's claimed method as set forth in independent claim 1 that is particularly characterized at least by the claimed method steps of "determining an effective penetration limit of the GPR ..." (lines 5-6) and "obtaining the information about the electrical properties of the medium based at least in part on the effective penetration limit" (lines 7-8) taken together and taken in the overall context of independent claim 1.

Dependent claims 2-12 are allowable for at least the reasons for which independent claim 1 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicant's claimed method as set forth in independent claim 13 that is particularly characterized at least by the claimed method steps of "multiplying the first data stream and the second data stream ..." (lines 9-10); "dividing the resultant scan ..." (lines 11-12); "summing a plurality of

samples ..." (lines 13-14); "selecting a summed value that corresponds to a significant increase ..." (lines 15-17); and "determining the effective penetration limit of the GPR system as a depth ..." (lines 18-19) taken together and taken in the overall context of independent claim 13.

Dependent claim 14 is allowable for at least the reasons for which independent claim 13 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicant's claimed apparatus as set forth in independent claim 15 that is particularly characterized at least by the claimed "control unit configured to ... in part on the effective penetration limit" (lines 4-10) taken in the overall context of independent claim 15.

Dependent claims 16-17 are allowable for at least the reasons for which independent claim 15 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicant's claimed computer program product as set forth in independent claim 18 that is particularly characterized at least by the claimed computer-implemented steps of "determining an effective penetration limit of the GPR system ..." (lines 6-7) and "obtaining the information about the electrical properties of the medium based at least in part on the effective penetration limit" taken together and taken in the overall context of independent claim 18.

Dependent claims 19-21 are allowable for at least the reasons for which independent claim 18 is allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (703) 306-5765. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (703) 306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Bernarr E. Gregory Primary Examiner

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